



## DoD Global Influenza and Other Respiratory Viral Pathogens Week 4 (23 Jan – 29 Jan) Weekly Surveillance Report



**Note for MAJCOMs:** This report now includes tables, grouped by MAJCOM, that lists the number of specimens submitted by each site (page 11), to facilitate evaluation of each location's contribution to influenza surveillance.

**Number of new isolates for Week 4: 33 Influenza A, 5 Influenza B**

### *Influenza A*

Colorado (USAF Academy)	7
Illinois (Scott AFB)	7
Alabama (Maxwell AFB)	3
New Jersey (McGuire AFB)	2
Texas (Randolph AFB, Sheppard AFB)	2
Florida (Patrick AFB)	1
Maryland (Andrews AFB)	1
Mississippi (Keesler AFB)	1
New York (Ft Drum)	1
UK (RAF Lakenheath)	4
Italy (Aviano AB)	4

### *Influenza B*

Colorado (Buckley AFB, USAF Academy)	2
Texas (Wilford Hall MC/Lackland AFB)	2
Georgia (Robins AFB)	1

**In addition, 36** other influenza A isolates were newly identified during Week 4, but were collected prior to that week:

Colorado (Buckley AFB—1, USAF Academy--6)	7
Illinois (Scott AFB)	3
New Jersey (McGuire AFB)	3
Texas (Randolph AFB, Sheppard AFB, Wilford Hall)	3
Louisiana (Barksdale AFB)	1
Mississippi (Keesler AFB)	1
Virginia (NAB Little Creek)	1
UK (RAF Lakenheath)	10
Italy (Aviano AB)	3
South Korea (Osan AB)	2
Peru (NMRC-D)	1
Turkey (Incirlik AB)	1

## COMMENTS ON CURRENT TRENDS:

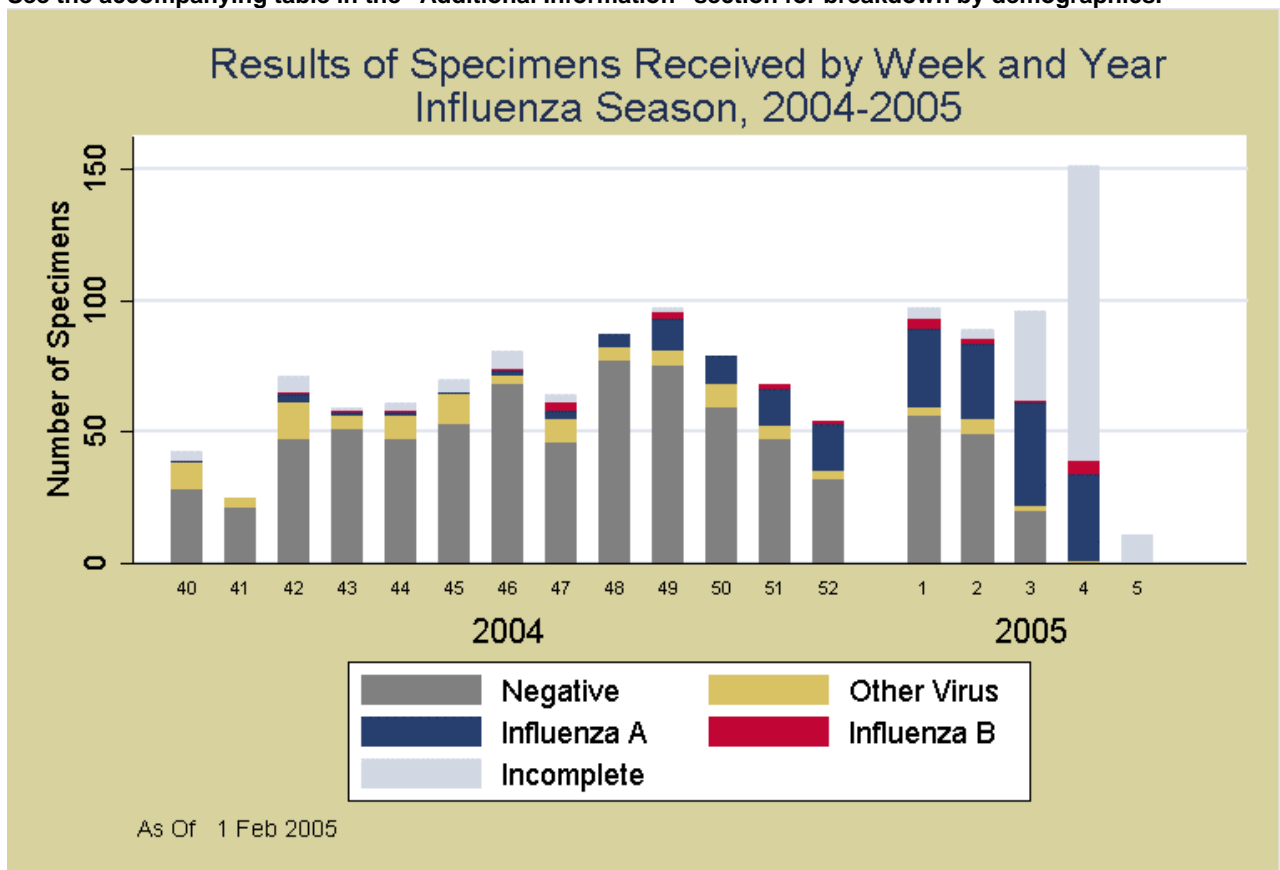
Not only has the number of influenza positives continued to rise, but submissions for testing have jumped dramatically (as seen in the number of specimens currently being processed on the next chart), indicating that bases are seeing more ILI illness. We continue to receive influenza A isolates from Lakenheath, although European surveillance only lists England at a “medium” level.

## SUMMARY:

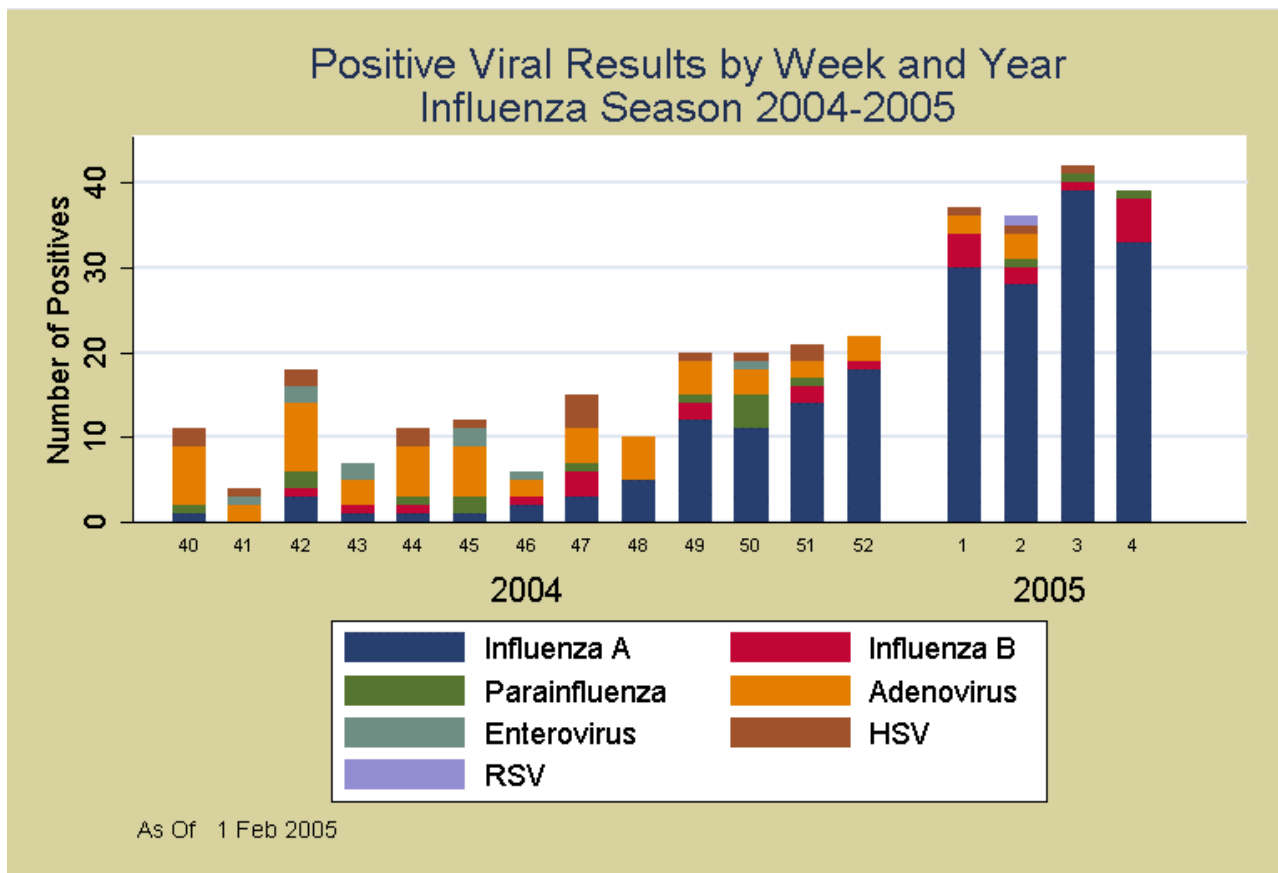
Since **3 October 2004**, the Epidemiological Surveillance Division (AFIOH/SDE) has processed 1118 specimens as part of the influenza surveillance program. Of those specimens, 202 (18%) were positive for influenza A, and 24 (2%) were positive for influenza B.

In addition, 196 specimens are still being processed.

See the accompanying table in the “Additional Information” section for breakdown by demographics.



## OVERALL DOD RESPIRATORY VIRAL SURVEILLANCE:

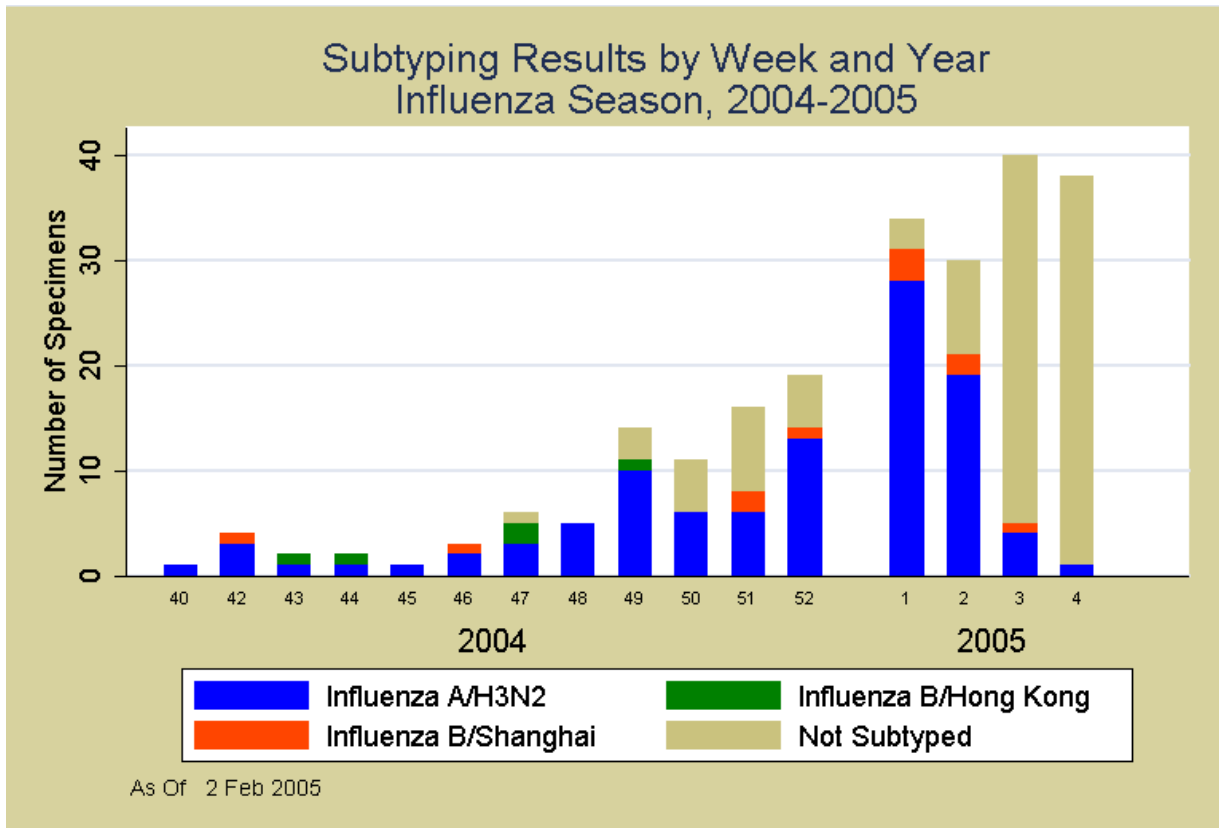


**Note:** Graphs do not include data from the NHRC, which conducts Febrile Respiratory Illness (FRI) surveillance among recruit populations. NHRC compiles this data into a separate report. For more information, visit the NHRC website at <http://www.nhrc.navy.mil/geis/>

## SUBTYPING:

Since **3 October 2004**, we have subtyped 120 isolates using either polymerase chain reaction (PCR) or hemagglutination-inhibition (HI): 104 are Influenza A/H3N2, 5 are Influenza B/Hong Kong, and 11 are Influenza B/Shanghai. The following graph summarizes overall subtyping results. Subtyping results for individual bases can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/>



## INFLUENZA-LIKE ILLNESS:

**Note:** A new version of ESSENCE is currently being implemented into our procedures. We hope to have updated ILI data as soon as transition to the new ESSENCE program is complete.

## NATIONAL INFLUENZA ACTIVITY: CDC

<http://www.cdc.gov/ncidod/diseases/flu/weeklychoice.htm>

During week 3 (the latest report available), CDC reported continued increasing influenza activity, mostly in the eastern United States. Laboratory surveillance identified 593 specimens (18.5%) positive for influenza. Of these, 49 were influenza A (H3N2), 481 were influenza A viruses that were not subtyped, and 63 were influenza B. Fourteen states and New York City reported widespread influenza activity, 17 states reported regional influenza activity, and 10 states reported local activity. Nine states, the District of Columbia, and Puerto Rico reported sporadic influenza activity.

## INTERNATIONAL INFLUENZA ACTIVITY: WHO

<http://www.who.int/GlobalAtlas/DataQuery/home.asp>

Week in review: **Week 4**

*South America:* No activity reported.

*Asia:* China and Malaysia reported sporadic activity.

*Europe:* Bulgaria and Latvia reported sporadic activity. Czech Republic, Greece, and Ukraine reported local outbreaks. France reported a regional outbreak. Spain and Switzerland reported widespread outbreaks.

*North America:* No activity reported.

*Africa:* No activity reported.

## ADDITIONAL INFORMATION:

- **Avian Influenza Update:** Cambodia has reported its first human case of influenza H5N1. The patient, a 25-year-old woman, developed symptoms on 25 January and died on 30 January. The Cambodian Ministries of Health and Agriculture and the WHO are currently investigating the situation.

Three more people are reported to have died of influenza H5N1 in Viet Nam: two girls aged 10 and 13 years, and a man in his thirties. These cases bring the total, reported since mid-December 2004, to thirteen. Of these, twelve have died.

(Reported by the WHO on 2 February 2005 - see [http://www.who.int/csr/don/2005\\_02\\_02/en/](http://www.who.int/csr/don/2005_02_02/en/))

- **Influenza-Associated Pediatric Deaths:** The CDC has reported three pediatric deaths related to influenza infection this season; one from Maine during week 1, one from Massachusetts during week 2, and one from California in week 3.

Please direct any questions or comments to: [influenza@brooks.af.mil](mailto:influenza@brooks.af.mil)

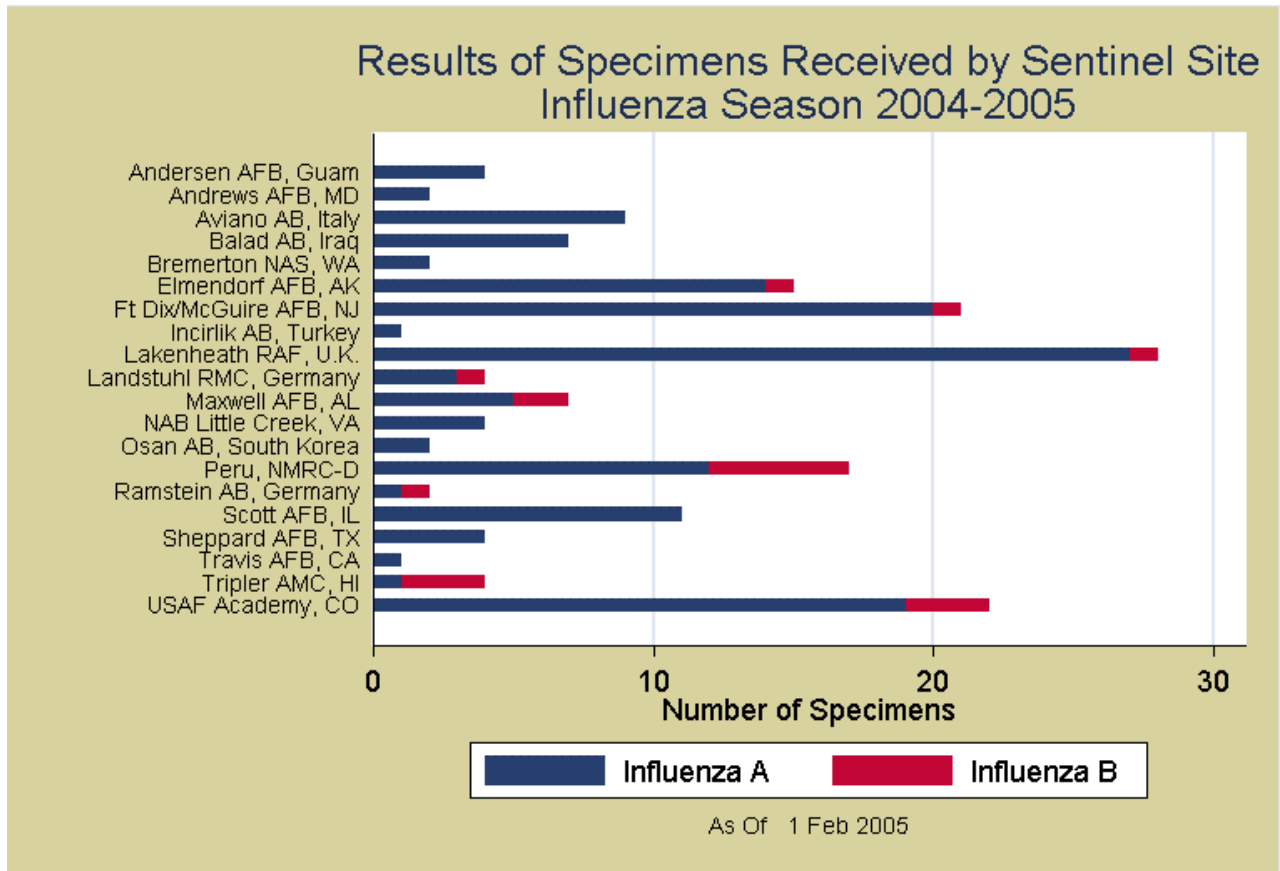
**Tables 1 and 2. Respiratory Specimens Submitted by Sentinel Sites, and by Overseas Laboratories since October 3, 2004 (including Incomplete Processing)**

<b>AETC</b>	<b>Specimens Submitted</b>
Maxwell AFB, AL	<b>35</b>
Sheppard AFB, TX	<b>148</b>
<b>AMC</b>	<b>Specimens Submitted</b>
Andrews AFB, MD	<b>9</b>
Travis AFB, CA	<b>19</b>
McGuire AFB/Ft Dix, NJ	<b>59</b>
Scott AFB, IL	<b>149</b>
<b>CENTCOM</b>	<b>Specimens Submitted</b>
Ganci AB, Kyrg	<b>0</b>
Al Udeid AB, Qatar	<b>1</b>
Balad AB, Iraq	<b>22</b>
<b>PACAF</b>	<b>Specimens Submitted</b>
Hickam AFB/NS Pearl Harbor, HI	<b>0</b>
Kadena AB, Japan	<b>1</b>
Kunsan AB, Korea	<b>5</b>
Andersen AFB, Guam	<b>11</b>
Yokota AB, Japan	<b>14</b>
Osan AB, Korea	<b>23</b>
Misawa AB, Japan	<b>25</b>
Elmendorf AFB, AK	<b>40</b>
<b>USAFA</b>	<b>Specimens Submitted</b>
US Air Force Academy, CO	<b>32</b>

<b>USAFE</b>	<b>Specimens Submitted</b>
Incirlik AB, Turkey	<b>12</b>
Aviano AB, Italy	<b>20</b>
Ramstein AB, Germany	<b>31</b>
RAF Lakenheath, UK	<b>127</b>
<b>ARMY</b>	<b>Specimens Submitted</b>
Landstuhl RMC, Germany	<b>4</b>
Tripler AMC, HI	<b>7</b>
<b>COAST GUARD</b>	<b>Specimens Submitted</b>
CGS Ketchikan, AK	<b>0</b>
<b>NAVY</b>	<b>Specimens Submitted</b>
NMC San Diego, CA	<b>5</b>
NH Yokosuka, Japan	<b>6</b>
Bremerton NS, WA	<b>9</b>
NAB Little Creek, VA	<b>20</b>
<b><i>TOTAL for SENTINEL SITES</i></b>	<b><i>834</i></b>

<b>OVERSEAS LAB</b>	<b>Specimens Submitted</b>
AFRIMS, Thailand	<b>0</b>
AFRIMS, Nepal	<b>0</b>
NMRC-D, Nicaragua	<b>0</b>
NMRC-D, Peru	<b>220</b>
<b><i>TOTAL for OVERSEAS LABS</i></b>	<b><i>220</i></b>

## SENTINEL SITE GRAPH



Numbers and graphs for individual bases can be found on the AFIOH Influenza Surveillance website:  
<https://gumbo.brooks.af.mil/pestilence/Influenza/T>

**Table 3. Summary of Recently Processed Specimens from All Sites**

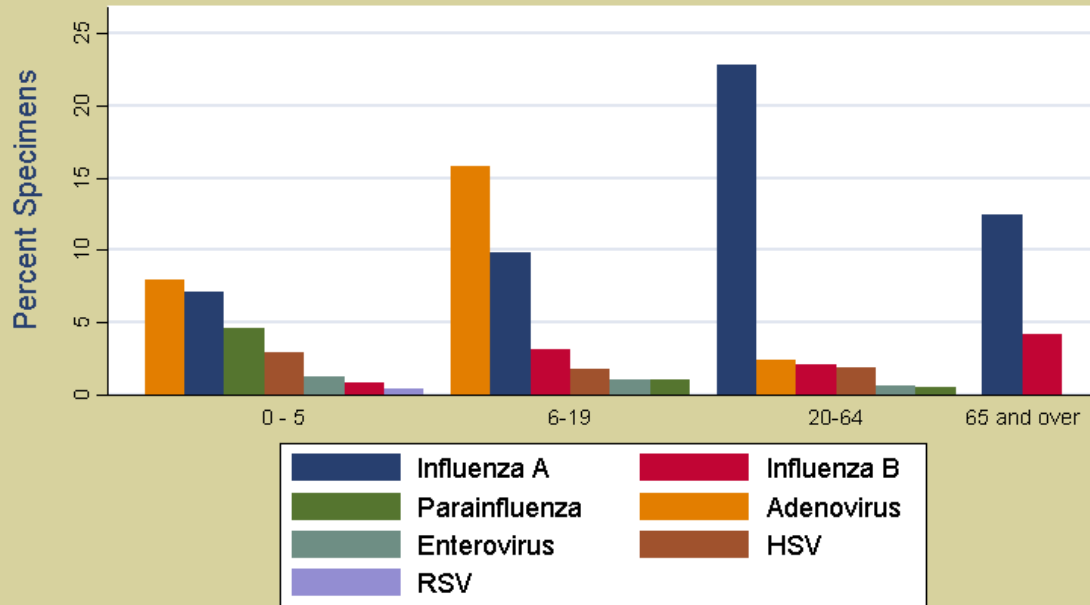
Location	Results of Specimens Processed during current week*				
	Negative	Influenza A	Influenza B	Adenovirus	Other
<b>TOTAL</b>	<b>123</b>	<b>79</b>	<b>12</b>	<b>2</b>	<b>5**</b>
<b>NORTH AMERICA</b>	64	48	7	2	4
<b>PACOM</b>	10	4	2	0	1
<b>EUCOM</b>	9	25	0	0	0
<b>CENTCOM</b>	4	1	0	0	0
<b>SOUTH AMERICA</b>	36	1	3	0	0

Comments: \* Influenza A and B totals include recent subtyping results.

\*\* 2 HSV, 3 Parainfluenza

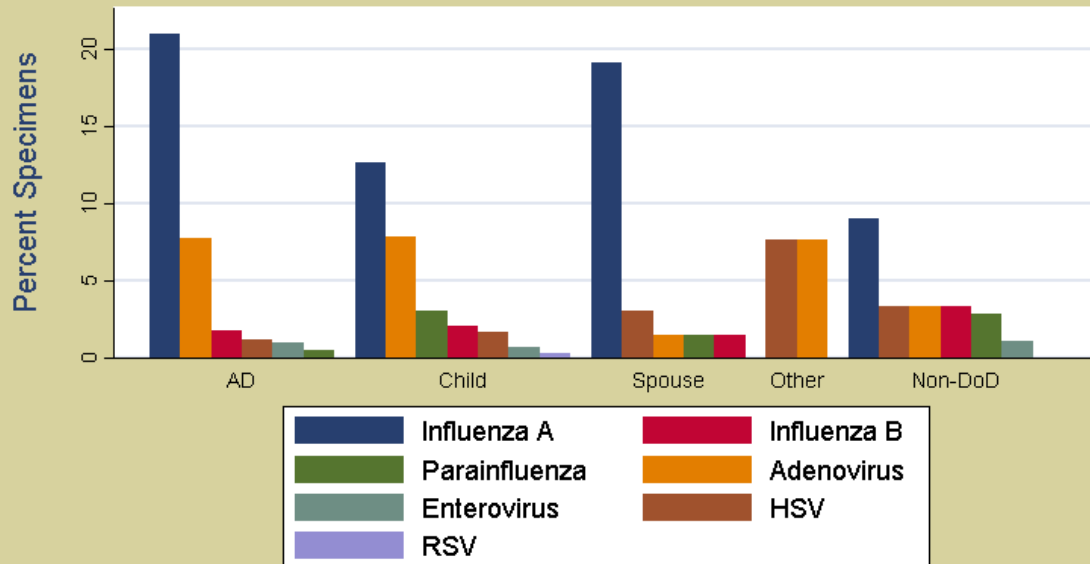
## DEMOGRAPHIC GRAPHS

Percent of Respiratory Virus Submissions by Age Group  
Influenza Season 2004-2005



As of 1 Feb 2005

Percent of Respiratory Virus Submissions  
by Family Military Prefix  
Influenza Season 2004-2005

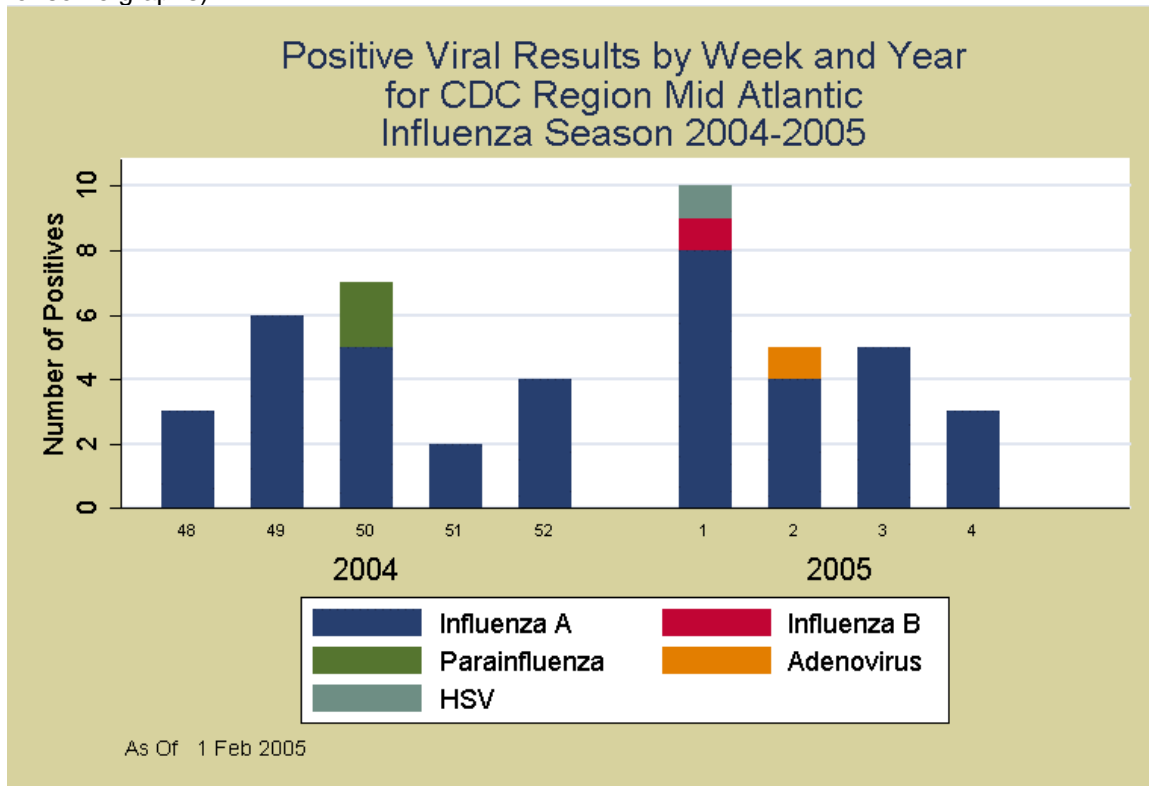


As of 1 Feb 2005

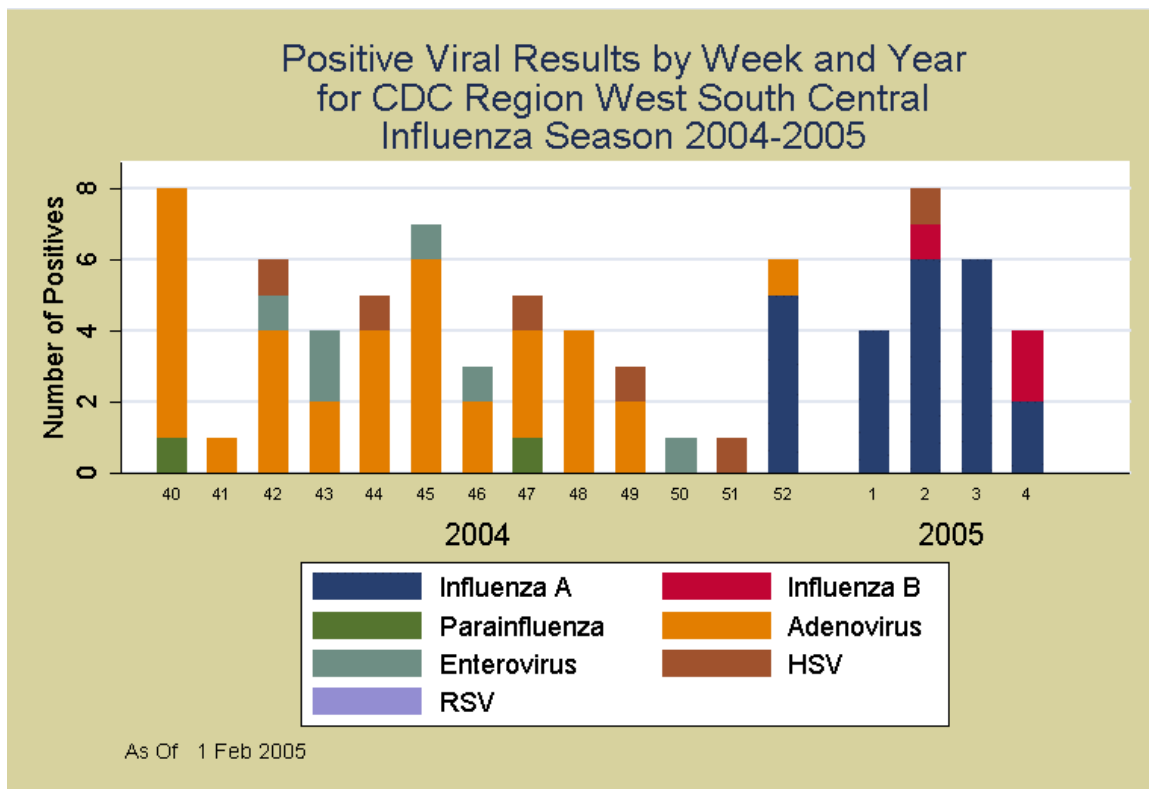


## CDC REGIONAL GRAPHS

(Not all regional graphs are included because numbers of specimens are small or only 1 week is present for some graphs)

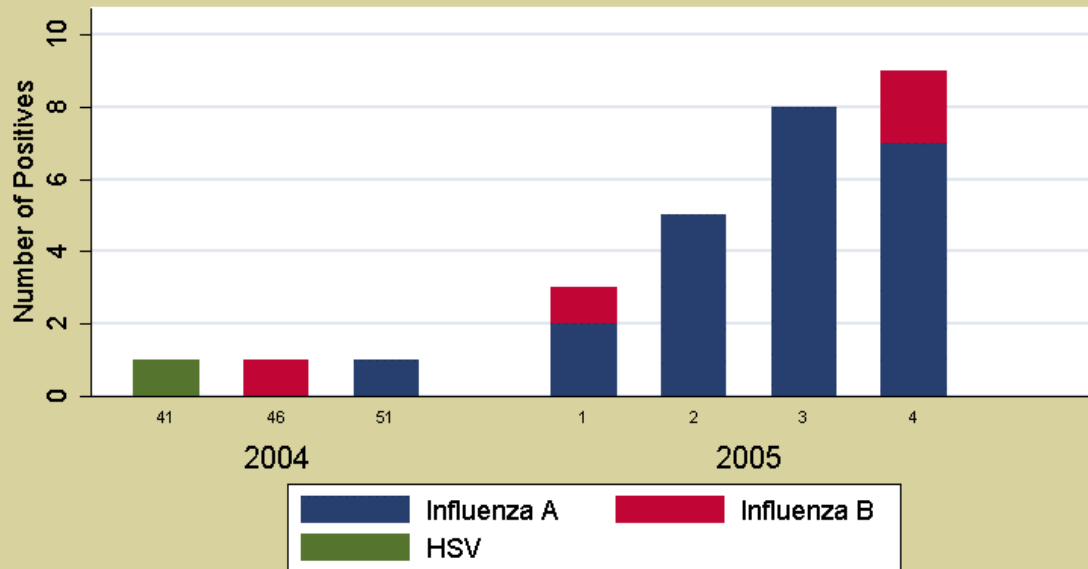


**Results from New York and New Jersey**



**Results from Texas, Louisiana and Oklahoma**

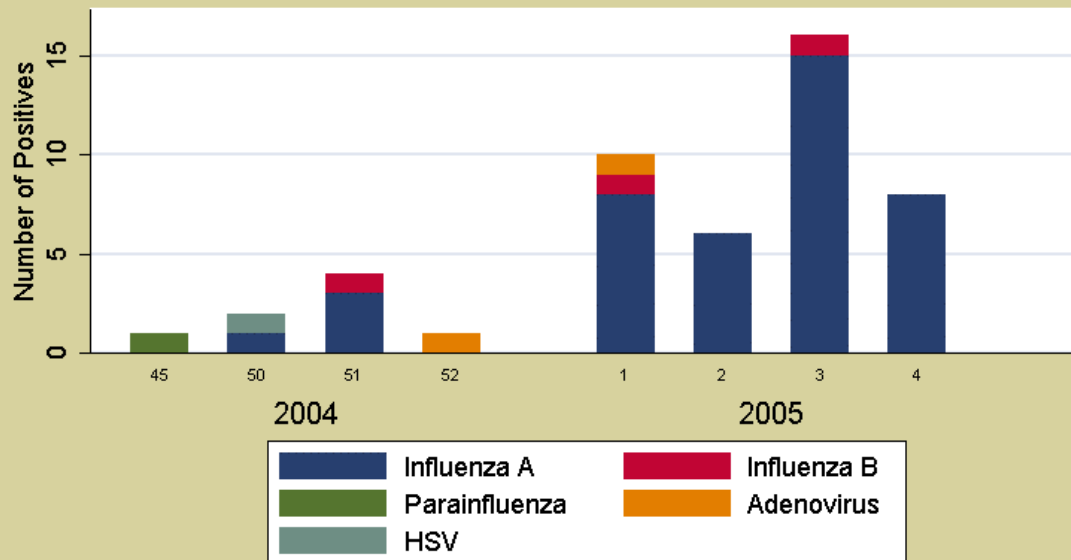
### Positive Viral Results by Week and Year for CDC Region Mountain Influenza Season 2004-2005



As Of 1 Feb 2005

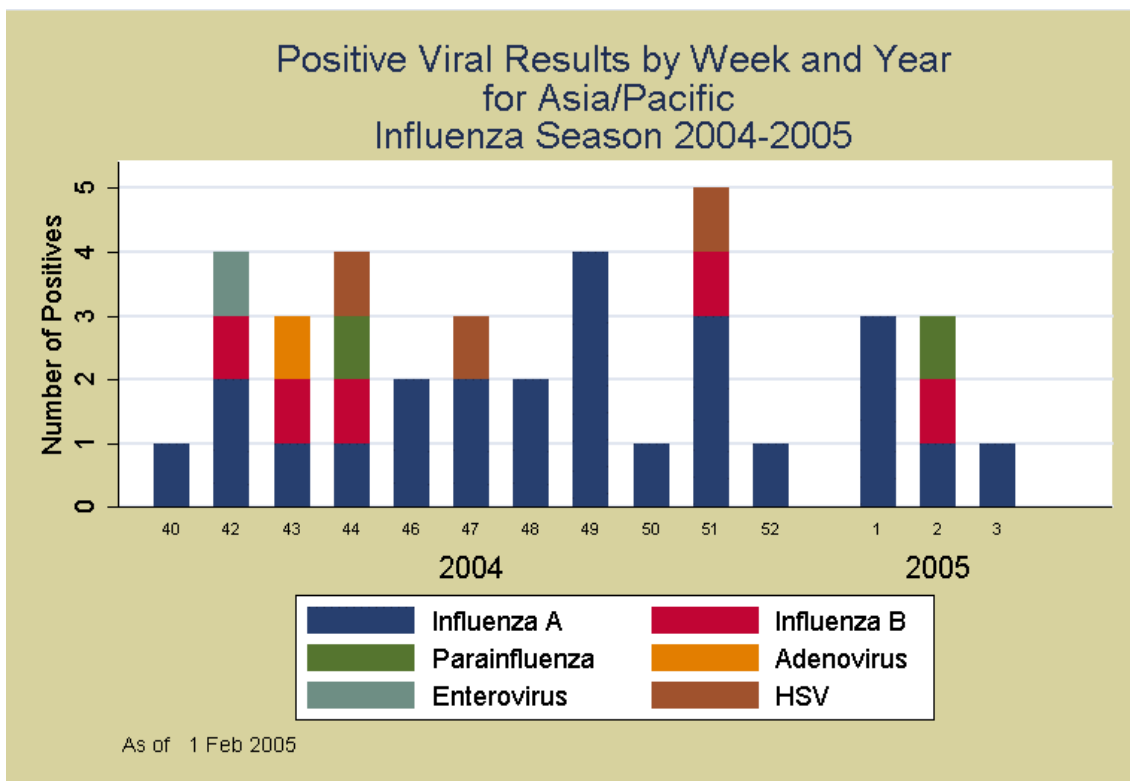
#### Results from Colorado

### Positive Viral Results by Week and Year for Europe Influenza Season 2004-2005

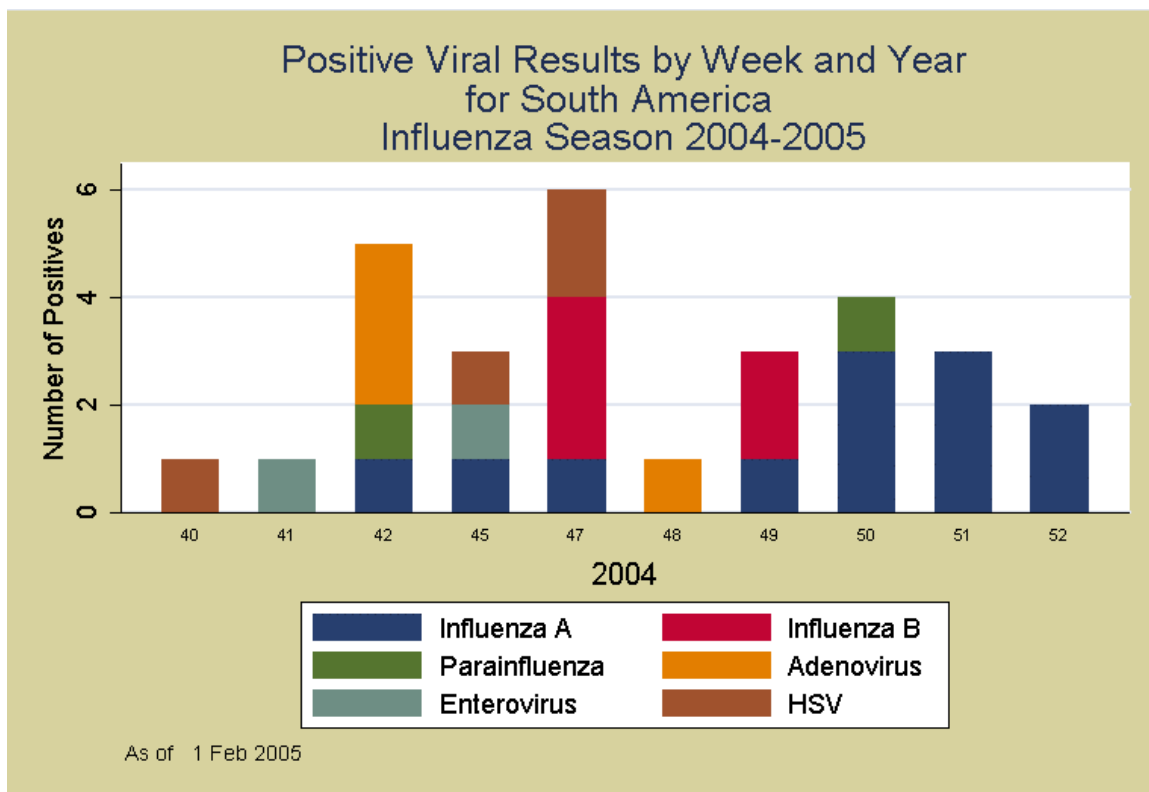


As of 1 Feb 2005

#### Results from UK, Germany, Italy, and Turkey



**Specimens from Alaska, Hawaii, Guam, Korea, Japan**



**Results from Peru (NMRC-D)**